

# cis-Cyclohex-4-en-1,2-dicarboxylic acid, di(2-ethylhexyl) ester

Inchi:	InChI=1S/C24H42O4/c1-5-9-13-19(7-3)17-27-23(25)21-15-11-12-16-22(21)24(26)28-18-
InchiKey:	SVVBLKNHJWATATO-UHFFFAOYSA-N
Formula:	C24H42O4
SMILES:	CCCCC(CC)COC(=O)C1CC=CCC1C(=O)OCC(CC)CCCC
Mol. weight [g/mol]:	394.59

## Physical Properties

Property code	Value	Unit	Source
gf	-274.82	kJ/mol	Joback Method
hf	-947.09	kJ/mol	Joback Method
hfus	50.57	kJ/mol	Joback Method
hvap	86.97	kJ/mol	Joback Method
log10ws	-6.38		Crippen Method
logp	6.088		Crippen Method
mcvol	348.740	ml/mol	McGowan Method
pc	972.91	kPa	Joback Method
rinsol	2510.00		NIST Webbook
tb	914.26	K	Joback Method
tc	1120.89	K	Joback Method
tf	478.46	K	Joback Method
vc	1.333	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1189.48	J/molxK	914.26	Joback Method
cpg	1208.56	J/molxK	948.70	Joback Method
cpg	1226.06	J/molxK	983.14	Joback Method
cpg	1242.01	J/molxK	1017.57	Joback Method
cpg	1256.43	J/molxK	1052.01	Joback Method
cpg	1269.37	J/molxK	1086.45	Joback Method
cpg	1280.86	J/molxK	1120.89	Joback Method
dvisc	0.0008462	Paxs	478.46	Joback Method
dvisc	0.0003540	Paxs	551.09	Joback Method

dvisc	0.0001815	Paxs	623.73	Joback Method
dvisc	0.0001069	Paxs	696.36	Joback Method
dvisc	0.0000696	Paxs	768.99	Joback Method
dvisc	0.0000488	Paxs	841.63	Joback Method
dvisc	0.0000362	Paxs	914.26	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U382644&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382644&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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